

Docket No.  
DEX-0271

# Declaration and Power of Attorney For Patent Application

## English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

### COMPOSITIONS AND METHODS RELATING TO COLON SPECIFIC GENES AND PROTEINS

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as United States Application No. or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐

\_\_\_\_\_  
(Number)

\_\_\_\_\_  
(Country)

\_\_\_\_\_  
(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

60/252,059

November 20, 2000

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)

(Filing Date)

(Status)  
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)  
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)  
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*



26259

PATENT TRADEMARK OFFICE

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Citizenship <b>France</b>	
Post Office Address <b>Same as above</b>	

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Sixth inventor's signature	Date
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Citizenship <b>China</b>	
Post Office Address <b>Same as above</b>	

## SEQUENCE LISTING

<110> Macina, Roberto  
 Recipon, Herve  
 Pluta, Jason  
 Ghosh, Malavika  
 Sun, Yongming  
 Liu, Chenghua

<120> Compositions and Methods Relating to Colon Specific Genes and Proteins

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 gtgacgcgt gtgggcaatt ccaatatcat ggggcactag ctggcgctct tatcttgtgc 840  
 ctggattggc ttcattgtat aagtcactct gacgcacgtc aaggccacgc tgactttcca 900  
 attggatggg tctattgttt agctgtccag ccatgcaatc gtgtggccaa cgacggtgac 960  
 actccagtga cgagatcaca tgctgttgac actgtgaagg cctcacactt gtctcaccat 1020  
 ggaagaagct gtcacgtcga atgcttacat cgggtgcatgt tcgacacgat ttgtacttcc 1080  
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<210> 18  
 <211> 908  
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<220>  
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 <223> a, c, g or t

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 atggcacgaa gcgtcccaca tggcccacca gagagtaacg cttcaaccat tgttcagcgt 180  
 gctatacatt aatgcgtgag tcaattccac gggatgtttc ttgaaggcct tggatgatac 240  
 cattaatccc tccattttatt aaggatgaat tgcacggggc ccctgccgct gggataccgg 300  
 cgacggggttt catcattttg ggcccttntt ggccagctcg tcattgcggc tgagaaggca 360  
 taggacctgt tcttgagtaa tccagttgcc aaggcctgtt aacgtttcct taaggggagc 420  
 aaaacaagct tcccttggtc tttctgtac gccttccaac gtttatccgt tcaaaagcta 480  
 gccaaagggg agttcccagg aactgtccgt caatcacgag tgacgttcta agacatgacc 540

acggtgctgg tacggggctg aggcaagcca ggggcaagaa caagatggcg tatttcgttt 600  
 tctgggcttg tgtctccact tctaccgatg ccaacgtgcg ccatggtttg tgggtggtg 660  
 caaacattca ggccatccaa cgacagcatg tgttccaaaa agcatccctg gcacagagcg 720  
 gtgaatcccc acccacctcg aacatcctgc ggaattcgag cacacagctc tgcgcagtac 780  
 ctggcggggg ggggcggtcg aaaagccgaa ttctggggaa tattcctcac actggggcgg 840  
 cgcgtcgagc atggtctaga gggccaattc goctatagta gtcgttaaaa tactggcgcg 900  
 ttaaacgt 908

<210> 19  
 <211> 307  
 <212> DNA  
 <213> Homo sapien

<400> 19  
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 tttctgaaga tatgcttttg tgcagatcta ttttcatcag ttttgatggg tgttaactag 180  
 gtggtccttt tcagcctgga aaagcatgac tactgtcttg atattttttc ctattatgat 240  
 tttctccagc cctctgacct tttctaaatt ttctttcttt ctggaaactcc ttttattcag 300  
 atactgt 307

<210> 20  
 <211> 67  
 <212> DNA  
 <213> Homo sapien

<400> 20  
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 ttaagtt 67

<210> 21  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<220>  
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 <222> (113)..(114)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (122)..(122)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (146)..(146)  
 <223> a, c, g or t

<220>  
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 <222> (153)..(153)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (155)..(155)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (191)..(191)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (210)..(210)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (212)..(212)  
 <223> a, c, g or t

<400> 21  
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 aatctattat acctcagagt ttttcttgcg gatttctggg ctttacctca acnnccctac 120  
 cnaatggngc ctgccccaca gctacngtaa tcntnagtca tctaaccatc tatatgctag 180  
 gtataatact ngctcctggt atgaaacacn ancaatatag ccgtatacat tcggtttatt 240  
 accttaagct a 251

<210> 22  
 <211> 522  
 <212> DNA  
 <213> Homo sapien

1000133 1000133



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<210> 23
<211> 160
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (76)..(76)
<223> a, c, g or t
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<220>
<221> misc_feature
<222> (104)..(104)
<223> a, c, g or t
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<400> 23
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atctcctcga gctaantatc acatctatta tgtctttctc actngggggt ttttctggtc 120
tqgtaqacaa agggttgtat tatatctgtc attgggtatta 160
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<210> 24
<211> 592
<212> DNA
<213> Homo sapien
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<400> 24
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ttcattcaat aagcatatgt tgaacatcta atattggggc aggtgctttt tttttttttt 120
tttttttttt tttttgggag aaaagggggt gtggctgggg ggcccagggg ggggtggggg 180
gggggaaaaa aaagcccagg ggcaccttgg gaacctcggg ggctaaaaaa atctcctcgg 240
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<210> 25
<211> 317
<212> DNA
<213> Homo sapien
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<210>	26
<211>	537
<212>	DNA
<213>	Homo sapien

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<220>
<221> misc_feature
<222> (485)..(485)
<223> a, c, g or t
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<400>	26	acaagctttt	tttttttttt	ttttttccaa	aaaacaattt	tttttgggcc	ccccactagg	60
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		gcaaacc	caa	ttcctggggg	aggggaagg	ggcgttgag	ttagacggct	180
		taaggga	acct	gaaaacc	cg	aggtgagggg	ggcctctgtg	240
		cctcaggccc	ccctctttcg	gccccctcac	cgaaatc	coct	ctccctctcg	300
		ggggggggccc	tccgagtc	ccc	ctcggcggg	accacgctta	gccgaattcg	360
		cgcgattccc	atcaccggg	gggcccgcg	cg	agcttgctct	ctagaggggc	420
		caatttc	cg	cctttgggga	ggcggtttta	caaccacgg	ggccggccgt	480
		ttaaaacc	gt	cggggcgggg	aaaaccccg	ggggacccca	attaaagcg	
		ctgggagaca	cccccttgca					

aaaangaacg accacaaggg ccacccgaca cagcaccaac gacacagaca cacaaac 537

<210> 27  
 <211> 506  
 <212> DNA  
 <213> Homo sapien

<400> 27  
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 gggggtttta agaaaaggat gtggaatctc agcctagggg tcgctgaggg gggccagtcc 120  
 ggtgtcagtt ctgtgttcag agaattaggt cgcagagtcg cctttggcctt ttcactttga 180  
 tggaccccc gggtgggtccg gtgttggtccc cagggattgg tggggccatg ttgtctcctc 240  
 aaacacctac aatgagaggg ggggagagga atttgggggg tggctatatt ttattcccct 300  
 tccccttatg cttcaaatgg tgggtccccta cattggattt tggccaagga ctcttctgtc 360  
 ttgccggggg ggccgttcaa aagcaaatat ccacaacatg ggggggcgta aataggggcc 420  
 caagctcgga ccacgttggg cgactcaggg catagatgtt ccgttgtaat tgggtactcgt 480  
 acaattccca aattaacaaa aaaggt 506

<210> 28  
 <211> 223  
 <212> DNA  
 <213> Homo sapien

<400> 28  
 acagcgtacc aagattaaac taaaaagaaa tagaaaacct taacagacta acaggatgta 60  
 taagattgca tcaataataa aaaaaaactc tcaagaaata aaaaggccag gaccagatgg 120  
 ctttaccgat gaattctatc aaacttatga agaacaccag ttgctcttaa acaattccaa 180  
 aaacacaaac aggagtgaat tcttcctaac tccttctatg agg 223

<210> 29  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 29  
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 taagattgca tcaataataa aaaaaaactc tcaagaaata aaaaggccag gaccagatgg 120  
 ctttaccgat gaattctatc aaacatataa ggaggactgg gtgcccatcc tccttaaaact 180  
 ctttcaaagg gttgaagaag agggattact cccaaagaca ttctatgagg ccaccatcac 240  
 cctcattcca aaaccaggca gagataccac caaaaaagaa aactatcgcc agaccgctct 300  
 aacgg 305

<210> 30  
 <211> 489  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (118)..(405)  
 <223> a, c, g or t

<400> 30  
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 catggttgca ttccagatca agaaattagc atcatttttt tttttaatca caaaatgnnn 120  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnntaatt aataaagaat 420  
 ataagaaata aatttttaaaa aaaatcacaa aatcacaaaa tttaaccaca acagctgaaa 480  
 agatgagaa 489

<210> 31  
 <211> 589  
 <212> DNA  
 <213> Homo sapien

<400> 31  
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 tttattttaa tttaaattaa ttaaaattaa aaattcactt cttcagttgc actagccaca 120  
 cttcaagtga caaatagcac atgtggctgc catattggac agggaagcga acatttctat 180  
 caccacagaa agttctattg cacagcactg ctctagaagg caatgacatt aacttgcttc 240  
 cctctgtctt cttataagaa aagggttttt ttgttccaat tttgttacag ttgtgttttt 300  
 ttcagcagtt ggtgtgatat tttttctcac acacctgagc attttccagt cacaaaattg 360  
 ataggattat cgactatttt caaagtcacg tggtatcttg ttacacattg gttgtacaca 420  
 gcctaattgg catctctacg cttcttctga ataacatttt ttccttgtga accacttcta 480  
 aagcagtcac aagtgttcag gagaataaca atgccccatt gagctggctc cattctagtg 540  
 tgtcacagat ccctctgtt cagtcagta ttgtgagccc atgaatttt 589

<210> 32  
 <211> 709  
 <212> DNA  
 <213> Homo sapien

<400> 32  
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 tttcattggt aatatttgat gtatttagat ttcataaaat ttacagataa aaagtagatt 120  
 caacaatcta agttgtctaa gcacacttaa agtttttcca gtaactgaaa caacggtaaa 180  
 cttttaaact taaaattaat taaagttaaa aaattcagtt cttcagttgc actagccaca 240  
 cttcaagtga caaatagcac atgtggctgc catattggac aggggaagcga acatttctat 300  
 caccacagaa agttctattg cacagcactg ctctagaagg caatgacatt aacttgcttc 360  
 cctctgtctt cttataagaa aagggtttttt ttgttccaat tttgttacag ttgtgttttt 420  
 ttcagcagtt ggtgtgatat tatttctcac acacctgagc attttccagt cacaaaattg 480  
 ataggattat cgactatttt caaagtcagtg tggtatcttg ttacacattg gttgtacaca 540  
 gcctaattgg catctctacg cttcttctga ataacatttt ttccttgatga accacttcta 600  
 aagcagtcac aagtgttcag gagaataaca atgccccatt gagctggctc cattctagtg 660  
 tgtcacagat cccctctgtt cacgtcagta ttgtgagccc atgaatttt 709

<210> 33  
 <211> 489  
 <212> DNA  
 <213> Homo sapien

<400> 33  
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 atgtgagttt caaattatta gatttaatgt atttaataga tgcaggatta ttcattggtg 180  
 ctctttattt ttaagtgaat ttttgtaacc tcttttctct caagtaatgt gtccgtttac 240  
 caaactttta aaatgtattt gcataaagtt taaacattgt gtgcttacta tcattttata 300  
 acctgtagta taattagtga cagtctttca ttactggctt tagtatttag tattttttct 360  
 cttttttggt gagtatagct agaatttttt cattttttta taaatgagct ttttatttta 420  
 ttgatattcc attttggtgt tctttcaatt tttattgatt tttgttctta tatgtatttt 480  
 attattttct 489

<210> 34  
 <211> 268  
 <212> DNA  
 <213> Homo sapien

<400> 34  
acaagctttt tttttttttt tttttttttt ttttatttta aaaatttttt ttctggaaac 60  
ccaacccaaaa attgtgggaa ggaaaacgtg taaaagtaat cctggcatat tgcggaacag 120  
caagccctta tttggaaaaa agtgaggact taaaacagtg gatctcaagg gcaatacccg 180  
tgctactgtg ttttcaaaca ctcaggggtg aggtcctttc ttaagcaaat tttttctttt 240  
ccctaataag ctacaatatt gatacagt 268

<210> 35  
<211> 601  
<212> DNA  
<213> Homo sapien

<400> 35  
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tctcccacac catgaaatgt gttttgtaca cacaggggga ttcctccaca tctaaatctc 180  
caaaccttta gtagaacca acattttggc tctctttggg accaactttt ggccataaga 240  
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aggcctaatt ttaatatccg tgattttttt taaacaaaag cttgttttct ttaagcctaa 360  
agcttccctt acaatctctc ggggcccaag aaaaaaaga tttcttgga gtttctaaag 420  
gttctttccc aaataaggaa tttccctcgc gggggaaaaa tttggctttg gaaaatccgt 480  
gggggtgggag aactccattt cttgtgaaaa aacgccccaa attaaggggg attcgccatc 540  
aggggtctcc ccagtggaaa aaagttacct tcgcccgggg gggcccggtt tcaaaaaagc 600  
g 601

<210> 36  
<211> 551  
<212> DNA  
<213> Homo sapien

<400> 36  
actgttggca accatctttt cctagtggca agagaagttc tacagcccaa atgttgtcag 60  
ccctggaatt aactcactct aggagactat gaggagggat ttcaggtgaa aatttgggca 120  
ttgatgatag aaggatcatgt gtgttcttct gaaaaacctt gggggctata gaatttttgc 180  
cctaaaaata aagatgctca tgagaaaact aggaatagag cagactactc aaaccataga 240  
tctttttaac tagaacatta atagcaaaaa caaatgaaa caatcctaata gaaaattctg 300  
gcataattac aattctctta gcatttacac caggtaaaat agtcactcct ttgcaatctt 360

aaaatgttaa gctagtgcctt tcttctccag gacacaggctc ctggaggaca tttgttttaa 420  
 gagagactat tttcataaaa atctgactca tgggtgtgggc ttcttcataa attcattgct 480  
 ttaggggtggg gaacaagtcc tacagcttca tcacctacac tgttgcttta ccagtagctt 540  
 aaaatagtgg c 551

<210> 37  
 <211> 244  
 <212> DNA  
 <213> Homo sapien

<400> 37  
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 tagcctgtct gaggttggtta ttagctgatt cctccagaat cccaggctag actatatagt 120  
 aaagttctat caccacccaaa gaacacctgc aagggctgga agagggtggt gtctgctaaa 180  
 acacacaggt atcattataa ggacagaaag attatgaaaa atcaggaaaa tatatgatac 240  
 cacc 244

<210> 38  
 <211> 681  
 <212> DNA  
 <213> Homo sapien

<400> 38  
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 gggccatggt ccggtgggct caaagaataa aaactaagtt tgtgaaagta tgaagtgcaa 120  
 gggaaaaaca aatatttctc caaagctcca gtggtgaaat ggctcctccc aattttgtgg 180  
 cgcttatggg aggaggggtc caagttggtg gttgcgtggt ctcgtgtatc cccggggata 240  
 ggggtgcggga acaagatggg ttgtgggtgt ggggaaggga gcccgagggt gggcgagtg 300  
 ggaagggaag ttacacgag gaaaagccaa gaacgggcgg cccacagcg ttcgaaaagc 360  
 ccgcgaaatc cgctgggtct cggggggggc caccaacgcg tctcctagag gggggggccc 420  
 cacatctcgg tagtataggg ggccagggg cgggggaaagg gccatggaga ggggtaatgg 480  
 gggacacctg cgccccggga gcgggcccgc ctgagaacgc cagaaatctc caggccacac 540  
 gggggggggc ggtaacatag ggggactcca aagcctcggg accaaagctt gtggggaaac 600  
 tcatgggcca aaagcgtggt ccccgggggg ggaattggtt acccgggcac aattcccat 660  
 aataaccaca aacaaaaacg t 681

<210> 39  
 <211> 510  
 <212> DNA

<213> Homo sapien

<400> 39

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tattacatga ataagtttgc ccaagttctg ggagcgaacc acatacggga gaacaatgta      180
aattgtactc aatctatgtg ttcacaaaaa tgtatatgtt tatccaatgc tacgtggaaa      240
cctcgtggat acgcttaaga agaaaaaaag tcatccatga aatcctggga aacacagaca      300
atttaaacga atccgcaaag attgccaaat acaagactta tagtatatat tatgctcgag      360
agaggtcatt tcagtccta tgatacttga ttattttgct gtgctatgat cttgtgtgca      420
cagttatcac tgtacctgac agcttagttc attaaagtaa ttggaaattc tcagacagca      480
cagtggatc agacacttgt attcaagagt      510

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<210> 40

<211> 145

<212> DNA

<213> Homo sapien

<400> 40

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aatattgctt ttctcttct gccatagggc tcctaaaacc cttggaattt cccaagtaac      60
agagatgaga gcagtatctt ttttaaaatt cataatgagc ccctttccac cgcactctgtt      120
tatgctaatag aggtaactct gatga      145

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<210> 41

<211> 605

<212> DNA

<213> Homo sapien

<400> 41

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gtctttttaa aaaatggggg tttcccaaaa ataaaaccct tgggacaaaa aaaaaagggg      120
ccccgggtta aacgggggtt acgcctgggg ggagcctctg gggcgacagt gtgatcacct      180
ctagaatgcc tgggggggtc cccccactt tttaccgcc caatttttct ctgccaaca      240
tgggcagtgt ctttccttcc cgggcccga aagatgattg cacggaggga gaggggcggg      300
gcggccctcg ggggccagt atgtcctggg aggggagagg gggggcgccg cgtcactaaa      360
gactgggccc cacctctctt aactatatac aaggtgaaaa cgctgaaaag aacgtaaaaa      420
aaaaaggggc cgggcggggg agaggagccc ggcggggggg gcgccccaaa ccgaattccc      480
ggaaattccc acacacgggg gggcgccga aagtggttga agaggggcca cttcgcccaa      540
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ctccc

605

<210> 42  
 <211> 355  
 <212> DNA  
 <213> Homo sapien

<400> 42  
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 ggtctcaaat tttttaaaag cagactgtta gacaacgcac ggggggtttgg aaatatcccc 180  
 tatttaaaaa ttgggaacct ggcagtgggg tatatgggag aagtcacacc tctgggtggg 240  
 gttgggtggt ttggccctgt gttcccccca aaggggtggt tttgaacttt cttccacatt 300  
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<210> 43  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<220>  
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 <222> (184)..(184)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (255)..(255)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (267)..(268)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (270)..(270)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (283)..(283)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature

1000483-4201  
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<222> (323)..(323)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (352)..(352)  
 <223> a, c, g or t

<220>  
 <221> misc\_feature  
 <222> (265)..(265)  
 <223> a, c, g or t

<400> 43  
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 tgggtgttttt atttatcttt aaaatgggta tatgagtttt taggaacggg tttttgaaca 120  
 aacgaaaaag gtgttttggtg aaatggcaac gcacgctgat ctggatttgg gaaacacccat 180  
 aacnttgaat gtgacagaac atatttcacg cattcaaaca catggacggg tacggtttga 240  
 aagcttttcc tctcnttctt gtganannan tgtggactca tgnactcaca aactcgtgg 300  
 ctgcgcacg caactaaagc gcncttaatt cgctcggacg cgcacttctc cnacgcgtgc 360  
 gacgcgctta tactaattaa tggtgcaaag gtaaacctgg c 401

<210> 44  
 <211> 363  
 <212> DNA  
 <213> Homo sapien

<400> 44  
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 gtgaataagg gtttttgtat gcattttact ttgtcttatt tcagacattt ttaatctctg 120  
 ttcttgtttc ccttttctat ttctgatatt attttataaa cctactcttg ttttctattt 180  
 cattaccctt atcgattata ttaactcttt cttctaaaaa cggttttcta taaatactgg 240  
 aagcgcattg taatttgact tccaatagc aatgataaac ttgaaatgc ttaatattgt 300  
 ttaaatcaag acaacaaatg aaacctgtc tggctatcag tcttgttaca gtctctcact 360  
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<210> 45  
 <211> 733  
 <212> DNA  
 <213> Homo sapien

<400> 45  
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 gtcggctgtg tgtctgttgt cgttcgtgtc gtttgtctcg tgtactgtcg tcgtagtatac 240  
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 ggggttaacc gacgccaggt gggtgttctc caccagtcta cagaacgcgt tgggtaataa 360  
 cgagccgggc caacgtggat ttggtataat accgacgtca cgtattaagg gctgaaattg 420  
 ggccgacctg taaaatgcat tgggtctgaac cgccgcgacc agtgggtgagt ggagaaatct 480  
 tgccagaaat tctggcgctt tcgagcgctc cgccccgggc aagggtgggga cggggttctt 540  
 ggccacaaac cccatcttca ggcccagcgt ttttttttcc ttctttgttt ttgcgggcca 600  
 cggcccgaat ccgggtttgt accagctttt tttttttttt tttttttttt taaacaggtg 660  
 caaaacctcc ttgggctttt aattaacact tagcagtga tgcacgcagg ttgggctaaa 720  
 aggtttgggt acc 733

<210> 46  
 <211> 558  
 <212> DNA  
 <213> Homo sapien

<400> 46  
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 ttgggtggtg accccacga ggatataaaa acacggggag ggggttacct cccttcacc 120  
 cccgggtagg tgccccagg ggaagagagg ctcacctgag ggagaaggaa gcccaaaggg 180  
 gccccgcgtg cagactcagg ccaaggggat tgccatcggt gcgtggaacc gtgtgagcac 240  
 tacaggggga accgcgggcg ttggggggac tgggccccgg gcacacgggc gaggggcaag 300  
 ggggttgtgg cacgaacccc caaagcttct tgggggtccc ctttcttcct cgtggccttt 360  
 tcgtgctccg gcggatgacc cccgagcccc ctctgtctgg gggggggcag cagaaagcgc 420  
 gtatcggggg ctcccttta ccgagtgccg gctttccatt ttctcggggg ggagctccgc 480  
 gggccccggg gcagggcagg cggggtcaac cgccccctta gttcccctgg cggaccgcta 540  
 gcgattccgc cgggggcg 558

<210> 47  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<400> 47  
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caaggttgca tgtctacata agctgttggc aatactgcac taaagtatct cctttcaaca 120  
 aacaaagggt gaagctagga gaaggacaga gaggtattta ttaaaattct tgcaatttct 180  
 ctgtagagta taaactgttc aaaataaaaa gtttggggca gaaatatata atatattgga 240  
 tctcaaaaac caaccaaag gaggtatggc cggttcacat catcttggct gggagaagaa 300  
 aagaaagtgt ctgatggtga atatccgc 328

<210> 48  
 <211> 666  
 <212> DNA  
 <213> Homo sapien

<400> 48  
 actgttatga ggtagatagg gttctttttc tagtcccagg ttctgagatc ttatcagaaa 60  
 tggatgttga atttcaccaa gtgcattttg catcaattga attgattgca tgcatttttt 120  
 ttcatcagct tactataggt gaaatgcatt gaatagtatt ggaaagtaaa ttcaatcttg 180  
 tattttcaag cataacagaa acatttagct ccataaagca ttgtttggtt caatttggtg 240  
 atattttatt aataattttg cttatatgct cctgttaatg tggatatagtc atttgtattt 300  
 ttctactgtt ataatgtcct tctctgtttc atatataaga gtaatgctaa cttcatagaa 360  
 ttagttggga agatttactt atatttaata ttcaggtaaa tgtaagtaa atgtattagc 420  
 gtttctccct tgagtgtttg atagaagtct tcagtgaagc catctaggcc agaagttatt 480  
 ttgcttgaga gcgtgttttg tttgtttttt aagtcaaagt attcagtatt attgagaaat 540  
 accaatttct tcttcagtga gctttgttgt tttgtgtttt tcaaggaaat tatccagggt 600  
 atcttttttt ggcataaagt ttgcataata ttcaattatt ctaattgtaa aatatgtaga 660  
 tactgt 666

<210> 49  
 <211> 584  
 <212> DNA  
 <213> Homo sapien

<400> 49  
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 ttagagatgt ccacagagtc tgttctagtt tcttaaccgt agaacgaaga ggtgttttat 120  
 gttccagttt tactaggcgg gggagtcgtg agccagaaga tgttatgtca cgtttccata 180  
 gtctcctata tgcataagaa tgtcttcctg ttctgcccta tccattgatt tccccatgc 240  
 tcagtacggg agctgtcaaa tggcatgcag agtctgggac gagttgtgac tgcctcaatg 300  
 cgctgtaagt acccagtaaa ttatggggag gacgtgaggg aaggaagga tcaacttgtga 360

agcccgaggg ggttcgagag accaagactt gagcagacat aagatgggac ccctggtggt 420  
 ctacagaata aatataatta gtcaactaaa aacatggcgc aaggcctggg cgaatagggg 480  
 cccatgagtc acacggaaag tcggggaagg ctgaagccgg cggggaacac cttgaggccc 540  
 agggaggcca gagggcgcac agaggagctg tgggtttggg gcaa 584

<210> 50  
 <211> 216  
 <212> DNA  
 <213> Homo sapien

<400> 50  
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 ttaccagatt gggacatgct gggtgaaaag ctatgtgtat ttaaatttga taaacatgta 120  
 ttgatttata ttgaaatttt atgtatgtat tccccactc ttttctggaa caatggtatc 180  
 aattcctatt tctttcttct tttttttttt tttgga 216

<210> 51  
 <211> 184  
 <212> DNA  
 <213> Homo sapien

<400> 51  
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 acacacacat acacagaggt actggctctg tcaactctagc ttgacatatt actcggtttc 120  
 actatgtata tcacacatcg tgttgtagca cttaaattatt tacagatatc cggttctatt 180  
 acga 184

<210> 52  
 <211> 315  
 <212> DNA  
 <213> Homo sapien

<400> 52  
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 tttcttaata acttcccata aattgcacag ttttcttcat aaatgccctg cacaaatctt 120  
 acgggatttc tttctaggtg tgtgcgtgtg tgtgtgtctg tgtgtgtgtg tgtgtgtgta 180  
 tctttgtaaa ttogaatggg aatttctaaa agtttatttt tgatataatg gacacacagc 240  
 tgatttaggg aacactgatt tttatatcca gataccttac taatgtaagt cctgggagat 300  
 agctatttgc atgaa 315

<210> 53

<211> 201  
 <212> DNA  
 <213> Homo sapien

<400> 53  
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 aaagagcaga agttttaaat tttttgttc cattgtttgt tgtagtgta tagaaataaa 120  
 attgattata gtgtattaac tttgtattct gtgacctgc tatattcatt tattagatgt 180  
 agtagcttat agggttctta a 201

<210> 54  
 <211> 55  
 <212> DNA  
 <213> Homo sapien

<400> 54  
 cacgcctctc ctcttccatc tgtgtccaat ctccctctgc cccttcgttt ttttg 55

<210> 55  
 <211> 343  
 <212> DNA  
 <213> Homo sapien

<400> 55  
 ctctctgctt ctacttcatg gaagagattg tagagacatt ggtatcattt tgtccttaag 60  
 ggtttggtag aattcaccac ttggacttag ggctttcttt tttgaaagt tattaattat 120  
 ggattcagtt tcctttatat taatagatac aggcatTTTT agatgatatg tttctcctta 180  
 tctgagtttt ggtagcctgt gtctttccag gaattgggcc cttttatcta aattaccaca 240  
 tttgtgggag aggagctgtg tataacaatc ctttggatcat ctttttatgg gccgagacag 300  
 gagggtgaaa cgggcgaaac tgagggggga caagggggggc ccc 343

<210> 56  
 <211> 378  
 <212> DNA  
 <213> Homo sapien

<400> 56  
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 cttctcccca attcctaatt agagtcttta ggaaatggaa ttatatgaat ggcctttaac 120  
 ctcgttcttc accagggcac tccgctacaa ggcaagttca tctatgtgct tagcacctcc 180  
 agagctaaac tcttaccac cagaagggtg ccttgagaga taacagtga tttacaaccc 240  
 aaagtatgcc tggtatatgt ttttgccac ctttaaaacc tgattttgcc catgaagaca 300  
 ctgacccaac tgtcaagtag gtaaggcacc caagctagta ctagcaagcc agatcaaaca 360

gcacatcaaa aagatagt

378

<210> 57  
 <211> 140  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (88)..(88)  
 <223> a, c, g or t

<400> 57  
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 acatcctgga atctttgaga 140

<210> 58  
 <211> 198  
 <212> DNA  
 <213> Homo sapien

<400> 58  
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 ctcttttttg ttttcacaac ctttaaaacc acaataaac gatgagtaat ctttactggg 120  
 ggaaaagagg ggaaaaaaaa accaccaaaa caaccccggt tgggtggaaa aaaaaaaaaa 180  
 aaaaaaaaaa aaacttgt 198

<210> 59  
 <211> 514  
 <212> DNA  
 <213> Homo sapien

<400> 59  
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 tctacttagt gcggaatata ttaatagttg gacaacactc ccataacttg ttgcagatag 120  
 tcatagcgat tgggcaccgt tccaacagtc gtaactttta atgactcttc tgtgagacta 180  
 ttatacagat atctcatcgg tactatgtca ggatgtggaa ggctatgttg tagatgagac 240  
 tgcgatacta ttctgtctt agagcaacga cccaagacc agatgtctca ctcttactag 300  
 atagcactca taggtcacat ggggtctacc tctcgaagt ccccatctag gggccaggag 360  
 ctgagagctt caccaggtag aacaataata ttttttatgg ctatggaaaa agtaagcagg 420  
 aagtattgat ttgacagcac gtcttgactt gtattgtatt gacctaaacg tctcatatga 480  
 ttagatcatc tcgtatatca aagaagtggg gaaa 514

100133.1201

<210> 60  
 <211> 502  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (253)..(253)  
 <223> a, c, g or t

<400> 60  
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 acaacaatt tgcagagaaa gaaatagaaa cagctaacaa cacacaaaga aaagatgtcc 180  
 acatgtaatt aaagaaaggc aaacaaagac aataaaatgc cattttttacc tgtcagtcac 240  
 tctcacatac ttnttggtga cactataaac tgggtgaaacc tttttggagg gcaatttggc 300  
 aatagttatc aaagcctaaa gcagccaaag cctgcagcca tagcctccaa cctagcaatc 360  
 actagcacct caccacaggg ccacccttgg acaagtccat cctggcattt gttcaagtat 420  
 attgcttgca gcactgtttt caataacaaa aatgaacaac tcaaattgtgt atcaatgagg 480  
 accctaataa ataatgatg gt 502

<210> 61  
 <211> 228  
 <212> DNA  
 <213> Homo sapien

<400> 61  
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 gagtattctg ttagagcctt agaatatgtc tttatggtcc tgaaatcatt tagcaaaatg 120  
 atatactttt gaagcaaaat tcatagacat ccttaaacag ttaaattgtt ttataaatta 180  
 gcatattaag atatgcatgc aatgtagaca tataaacaag taaatagt 228

<210> 62  
 <211> 148  
 <212> DNA  
 <213> Homo sapien

<400> 62  
 gtttttttgt tttgctttgt tttgttttgt tttaaaccag ggtaaaatgt tggggggccaa 60  
 gttaagcttg gctggacctg gcaccaagta ttaacagaag ccagaagtct aacctcattt 120  
 ttttttaata ttctttttca gactgtgt 148



<210> 63  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 63  
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 aacaaaaaaaa tataggggag aaaaagttaa agtatagagt ttttttatgc agtaaaactg 120  
 aaactattat atcttttaaaa cagaccatta taactataag ataatttatg taagcaacat 180  
 tataaccaca aagaacagac ttgtaataga tatacaaata tataaggaaa gtattcgaag 240  
 catgtcacta caaaaattca tcaataata aagaaatcca gggagagaga aagcaactac 300  
 aaaacagtaa aaaaaaaaaa aaaaaagggg ggaataagtc cttttttata aataattact 360  
 ttaagtgtaa gtgttttact ttttctattc aaaagataaa gaaggtcgga atagattaga 420  
 aagaacaaaa ccaattaaag tgggaatcac ctatatacgg cctagagaag acttacttca 480  
 gctttcagaa c 491

<210> 64  
 <211> 640  
 <212> DNA  
 <213> Homo sapien

<400> 64  
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 gcacttgtct atatatttga tacatcaaaa gtggaaattt gaaaatggag aagtttggaa 120  
 catctcaagt cacagattcc atggggaaat aatgttgagg acatttggtta aaaactatca 180  
 tatatgcttt cctggaaaga ctagcaggac agcaaaaacta tctggatagt tgaagagtta 240  
 gtaatatggc aaataagtgg gcttcaacgt taggattttc atttacataa acaaacagg 300  
 agatgcacct catgctacta ccacataaat gagtttcata gagaatgttt tagaagctag 360  
 aggaatcctt tgaattagtt gccatctcta tatcagcagt ggctgaatta tgcataag 420  
 taatagtaac tgaaatgaag actccacagc ttgctcaaag aaaataaaaa acatacagtt 480  
 tcagaaagat acaaacatat ctgctcttac ttaaataatg ctgataacat gcacatttta 540  
 cttcagtgat taaacagtat ttttaagtcag cacttaaaaa aaaaaacact acttcttggt 600  
 ttcagttctg acacataaaa tgcttaaaaa tcatcatact 640

<210> 65  
 <211> 550  
 <212> DNA  
 <213> Homo sapien

<400>	65
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aaaaattgaa tcatagtcag taacagtgtg gtcttcagat catgtggaca aaagaacctta	180
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taataatggg aagggttagt ttgtaggtgt gaaaactgc agaaagacaa atggaccaat	360
aatatgaata,gtcagtttac agagaaagaa atataaatgg ctgataaata tgtgaaaaga	420
tgcttatctt ctaataaaaa tacaaattag aacagggaga tgtcacggtt gcggttcggca	480
actgggcaac gatthagaaa ccattttgga taagtggatt ggggggtagg tggagtaaag	540
tggagaaata	550

<400>	66								
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ccgctgaacc	agacactgga	gaaaatttcc	tgttctgctg	gttgtgaaga	ccatgggaaa				720
agtgcagtat	ctgggctaga	gtgtactgtt	cttcccagata	atagattggt	gacagcaact				780

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 gtatctgtac atttgatgga atgggtctct gatggtgaat attttgctac tgctggaaag 960  
 agtagggatc ggagaactgt ggcccaagag ctaagaatgt tttttacctt tttaaagga 1020  
 tgtaagaaaa aaagaagaat ctgtgtcata gacctgtgta gccacaaag cctaacttat 1080  
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 catgttcgtg agacaataca ccatttgaaa aatttaagga aaggacagag gaggtcatct 1200  
 gttcttgtaa ctcatgctga attaatgccc gaccagacag caatgcatga agttcaaaga 1260  
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 aactacactg ttactgacta tgattcaatt ttttctacc tccccaaagt ccactcgaga 1560  
 gtgctgaata agcaaaataa atacatgaaa aaggaactag acagtatgaa gaaagcttac 1620  
 agcaaaaaag tttaacctaa gtcaatgatg agtacggaaa tgttggaat aacctataa 1680  
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<210> 67  
 <211> 253  
 <212> DNA  
 <213> Homo sapien

<400> 67  
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 cagagattct aactccttgc tgtcaaaaca tagagcagat agagaaacat catctgactg 120  
 ccatttggtt gctctgatga tggaaaagct agggatgaat cattctccct ttctaccta 180  
 tactcccttg actgaatggg agtatctact gaatagtgag aagggcattt aagggttac 240  
 atttttctcc taa 253

<210> 68  
 <211> 533  
 <212> DNA  
 <213> Homo sapien

<400> 68  
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 ggcttaactc agattaaact ttttgcaaaa aagactacat aagtagtgct gtgtgcttca 120

ttttgccaaa tttcccttca caggggttat acctgagaat gatgttaagc tttgagtttt 180  
 atggtgcagt tctaattgac atttatttta ttttagtgat gttaagcagc ctttcatatg 240  
 cttaagagcc atttctgttt aagggctatt aagcatatga aaggctgctt aacatcacta 300  
 aaaaaaaaa aaaataaaaa aaaaaagggc tgggtgcccc ttttttttcc ccggggaatg 360  
 gccaaaaaaaa aaaaaaaagg cgtgtccccg gcgggggggc ccgacaaaac caaatctcaa 420  
 accagggggg ggcgaaacaa ggagaccacc agccctggaa cccaacgggg gcggaaacag 480  
 ggcaaaaagg cctccccgtg ggtaaagtgg tcccggcccc agtcccacaa tga 533

<210> 69  
 <211> 271  
 <212> DNA  
 <213> Homo sapien

<400> 69  
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 ggaaacaaac atttccagaa gcacagaggg ttagtcgtga caacagcccc tcaactacaac 120  
 acaggggggg gccgcgcccc ctgaggggac gaggccgagg cccctcagaa acaattatta 180  
 tacattttta acgaggggct acgcggtgac cgttataaaa acacaaaagg gacccgggga 240  
 aacagcaaag tcaacaggga aagaagtggg t 271

<210> 70  
 <211> 643  
 <212> DNA  
 <213> Homo sapien

<400> 70  
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 tattattgaa tggaaggagt tctttatata tctatatgat agacggtgga tatgtaattt 120  
 acagatatat tgtggttgcc cttttaattt ttttgataat atcttttgat gccaaaagtg 180  
 tttttttaat tttgtgaaag tccaatatat ctatctgtct tttgttcatt atgccctaga 240  
 atgtcatatt taagaaatca ttgagcaatc taaggtcaca aaagatttac actaatgttc 300  
 tttttttaag ttttgtagtt ttattcctta caattatgtc tttgatcaat tctgagttac 360  
 tttgtgtgtg tgtgagtgtg tgtatgatgt tggatagggt ctaaagtcaa ctgttttaca 420  
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<210> 71  
 <211> 645  
 <212> DNA  
 <213> Homo sapien

<400> 71  
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 aatgcacaca caagagtagt ccctaacgct actacactca tgtcaacggt agatatgggt 240  
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 cggatgcact agtgtagcta ctagacctat agtgaaaaca tacaatactg gctagcgctc 420  
 tcttgagtaa gttagttgtt taaatcacca aagtttcata ccatactgaa tcgtttgaaa 480  
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<210> 72  
 <211> 150  
 <212> DNA  
 <213> Homo sapien

<400> 72  
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 cagcttttcc ctttgcttaa ggggctaggg 150

<210> 73  
 <211> 180  
 <212> DNA  
 <213> Homo sapien

<400> 73  
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<210> 74  
 <211> 46  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 74

Met Thr Lys Asn Leu Lys Tyr Gln Ile Glu Tyr Leu Ile Leu Arg Ile  
 1 5 10 15

Ile Glu Lys Lys Val Trp Glu Arg Ile Phe Ile Ile His Ile Leu Phe  
 20 25 30

His Asn Val Asp Ser Ile Pro Tyr Gly Leu Leu Phe Asn Gln  
 35 40 45

&lt;210&gt; 75

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 75

Met Asn Met Leu Lys Asn Cys Tyr Val Ala Gly Thr Gly Ala Trp Asp  
 1 5 10 15

Trp Glu Tyr His Leu Pro Ile Ser Ala Tyr Arg Ile His Leu Gly Gly  
 20 25 30

Gln Met Asp Lys  
 35

&lt;210&gt; 76

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 76

Met Val Arg His Thr His Thr Trp Glu Pro Cys Val His Phe Ser Ser  
 1 5 10 15

Gln His Thr Leu Thr His Asn Ala Asn Ile Thr Phe Leu Phe His Leu  
 20 25 30

Phe Ile Thr His Gln Asp His Thr Lys Pro Gln Ser Phe Ile Ile Tyr  
 35 40 45

Ile Asn Thr Ser His Val Thr Lys Glu Thr His Ser Ala Thr  
 50 55 60

&lt;210&gt; 77

&lt;211&gt; 92

&lt;212&gt; PRT

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&lt;213&gt; Homo sapien

&lt;400&gt; 77

Met Ile Cys Tyr Ala Glu Asn His Lys Lys Ser Thr Lys Asp Leu Leu  
 1 5 10 15

Asp Ile Ile Asn Glu Phe Phe Lys Val Ala Gly Cys Lys Phe Asn Thr  
 20 25 30

Lys Tyr Ser Ile Val Cys Leu Tyr Ser Cys Asn Glu Gln Ser Arg Asn  
 35 40 45

Gly Ile Lys Glu Ser Asn Ser Ile Tyr Asn Thr Thr Lys Ile Asn Lys  
 50 55 60

Ile Leu Arg Asn Lys Phe Asn Lys Arg Thr Glu Lys Pro Ile Ile Trp  
 65 70 75 80

Lys Pro Gln Asn Asn Val Tyr Arg Asn Lys Asn Thr  
 85 90

&lt;210&gt; 78

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 78

Glu Ile Lys Gly Met Ala Asn Gly Lys Gly Lys Ile Lys Ile Ile Ser  
 1 5 10 15

Ser Leu Ile Tyr Asn Asp Met Ile Cys Tyr Ala Glu Asn His Lys Lys  
 20 25 30

Ser Thr Lys Asp Leu Leu Asp Ile Ile Asn Glu Phe Phe Lys Val Ala  
 35 40 45

Gly Cys Lys Phe Asn Thr Lys Tyr Ser Ile Val Cys Leu Tyr Ser Cys  
 50 55 60

Asn Glu Gln Ser Glu Met Glu Leu Arg Lys Ala Ile Pro Phe Thr Ile  
 65 70 75 80

Gln Arg Lys Ala Ile Lys Tyr Leu Gly Ile Asn Leu Thr Lys Glu Leu  
 85 90 95

Lys Asn Gln Ser Ser Gly Asn His Lys Ile Met Leu Gln Glu Ala Lys

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 1000193 "12001

110

Met Pro Ser Pro Arg Pro Pro Leu Trp Trp Asp Phe Arg Asn Leu Leu  
1 5 10 15



Leu Ser Ala Pro Pro Ala Arg Phe Arg Gly Gly Ala Ala Gly Phe Pro  
20 25 30

Ser Arg Gly Pro Gln Trp Gly Ser Arg Pro Ser Gly Arg Val Tyr Pro  
35 40 45

Pro Pro Trp Thr Pro Pro Val Ser Pro Leu Leu Asp Ala Cys Ala Phe  
50 55 60

Gly Pro Trp His Ser Phe Ser Pro Pro Gly Phe Ser Phe Ser Gly Ser  
65 70 75 80

Pro Phe Ala Gln Asp Thr Arg Glu Ile Phe Leu Arg Ala Pro His Leu  
85 90 95

Leu Arg Trp Pro Ser Thr His Ser Trp Ala Phe Gly Cys Leu Ser Ile  
100 105 110

Leu Leu Leu Trp Cys Arg Gln Ser Thr Val  
115 120

<210> 82  
<211> 63  
<212> PRT  
<213> Homo sapien

<400> 82

Met Ile Ser Asn Phe Leu Ser Thr Leu Met Phe Ser Ser Tyr Ala Pro  
1 5 10 15

Val Val His Phe Phe Asn Val Val Leu Pro Leu Asn Gln Glu Ile Tyr  
20 25 30

Leu Ala Lys Lys Thr Lys Asp Phe Thr Cys Ile Tyr Phe Ile Ile Phe  
35 40 45

Asp Ser Ser Thr Ile His Arg Val Ser Ile Phe Pro Gly Lys Ser  
50 55 60

<210> 83  
<211> 53  
<212> PRT  
<213> Homo sapien

<400> 83

Met Leu Ala Ala Ser Val Tyr Gly Ile Ala Asp Ser Gly Ser Thr Ala  
1 5 10 15

1000133-41001

Ala Arg Ala Val His Ile Ser His Tyr Trp Met Gly Ala Val Ser Lys  
20 25 30

Leu Ser Cys Lys Lys Arg Arg Asp Thr Thr Cys Tyr Cys Ser His His  
35 40 45

Cys Asn Lys Ile Glu  
50

<210> 84  
<211> 51  
<212> PRT  
<213> Homo sapien

<400> 84

Met Asn Phe Glu Lys Ile Asp Phe Leu Arg Ile Pro Trp Lys Thr Gly  
1 5 10 15

Asp Val Lys His Ser Tyr Val Leu Val Gln Ile Asn Met Thr Gln Val  
20 25 30

Asn His Ile Leu Leu Ser Lys Ser Leu His Pro Glu Arg Gly Gln Leu  
35 40 45

Leu Ile Ile  
50

<210> 85  
<211> 100  
<212> PRT  
<213> Homo sapien

<400> 85

Met Tyr Arg Asn Ala Thr Asp Phe Phe Met Leu Ile Leu His Leu Ala  
1 5 10 15

Met Leu Leu Tyr Leu Phe Ile Ser Ser Asn Arg Phe Cys Cys Cys Arg  
20 25 30

Cys Cys Cys Cys His Tyr Cys Trp Gly Gly Val Phe Leu Ser Asn Phe  
35 40 45

Leu Leu Ile Arg Leu Cys Tyr Leu Cys Thr Glu Ile Ile Leu Leu Leu  
50 55 60

Pro Phe Gln Phe Arg Cys Leu Leu Phe Leu Val Ser Cys Leu Ile Val  
65 70 75 80

Met Val Arg Ile Ser His Ser Met Leu Asn Arg Ser Gly Gly Val Gly  
85 90 95

Ile Leu Ala Leu  
100

<210> 86  
<211> 124  
<212> PRT  
<213> Homo sapien

<400> 86

Met Val Tyr Gly Cys Phe Phe Pro Lys Lys Arg Gly Met Cys Leu Ala  
1 5 10 15

Lys Ala Glu Leu Lys Phe Gly Val Asn Pro Pro Thr Gly Phe Phe Thr  
20 25 30

Gln Val His Arg His Gly Val Cys Lys Thr Arg Pro Arg Ala Gln Leu  
35 40 45

Arg Ile Val Lys Leu Pro Asn Leu Thr Leu Leu Trp Gly Arg Lys Ile  
50 55 60

Gly Ala Pro Ser Leu Lys Glu Pro Ile Ala Ser Glu Ala Gly Ala Pro  
65 70 75 80

Thr Thr Val Glu Trp Glu Lys Ser Leu Pro Arg Asn Ser Arg Pro Tyr  
85 90 95

Ser Cys Trp Phe Ser Arg Ala Pro Lys Val Thr Tyr Glu Ile Leu Leu  
100 105 110

Ile His Val Ala Pro Lys Pro Asn Gly Lys Met Val  
115 120

<210> 87  
<211> 29  
<212> PRT  
<213> Homo sapien

<400> 87

Met Cys Asn Phe Ile Phe Leu Leu Tyr Tyr Arg Lys Ile Gly Gly Val  
1 5 10 15

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Gln Phe Leu Tyr Asn Ser Leu Leu Tyr Leu Asp Ile Phe  
                   20                                  25

<210> 88  
 <211> 39  
 <212> PRT  
 <213> Homo sapien

<400> 88

Met Tyr Ser Leu Gly Lys Ile Arg Thr Met Cys Ser Gln Tyr Leu Gln  
   1                  5                                  10                                  15

Asn Leu Lys Leu Lys Arg Thr Thr Ser Ile Ser Val Val Ala Gly Phe  
                   20                                  25                                  30

Leu Ala Phe Tyr Gly Cys Lys  
                   35

<210> 89  
 <211> 39  
 <212> PRT  
 <213> Homo sapien

<400> 89

Met Thr Glu Pro Val Val Pro Pro Leu Pro Pro Phe Val Gly Pro Pro  
   1                  5                                  10                                  15

Asn Leu Glu Met Tyr Glu Gly Leu Leu Val Ser Leu Gly Asp Gly Trp  
                   20                                  25                                  30

Arg Gln Asn Arg Ala Tyr Leu  
                   35

<210> 90  
 <211> 155  
 <212> PRT  
 <213> Homo sapien

<400> 90

Met Ala Asp Ile His Gln Ser Ser Gln Glu Phe Gln Gly His Leu Pro  
   1                  5                                  10                                  15

Ser Phe Phe Tyr Pro Arg Pro Gly Asp Gln Ser Phe Pro Phe Ser Leu  
                   20                                  25                                  30

Lys Gln Thr Trp His Ala Asn Val Thr Pro Cys Gly Gln Phe Gln Tyr

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35

40

45

His Gly Ala Leu Ala Arg Arg Leu Ile Leu Cys Leu Asp Trp Leu His  
50 55 60

Gly Ile Ser His Ser Asp Ala Arg Gln Gly His Ala Asp Phe Pro Ile  
65 70 75 80

Gly Trp Val Tyr Cys Leu Ala Val Gln Pro Cys Asn Arg Val Ala Asn  
85 90 95

Asp Gly Asp Thr Pro Val Thr Arg Ser His Val Val Asp Thr Val Lys  
100 105 110

Ala Ser His Leu Ser His His Gly Arg Ser Cys His Val Glu Cys Leu  
115 120 125

His Arg Cys Met Phe Asp Thr Ile Cys Thr Ser Val Cys Asn Arg Ser  
130 135 140

Leu Val Ala Thr Gly Asp His His Thr Arg Val  
145 150 155

<210> 91  
<211> 97  
<212> PRT  
<213> Homo sapien

<400> 91

Met Ala Tyr Phe Val Phe Trp Ala Cys Val Ser Thr Ser Thr Asp Ala  
1 5 10 15

Asn Val Arg His Gly Leu Trp Cys Gly Ala Asn Ile Gln Ala Ile Gln  
20 25 30

Arg Gln His Val Phe Gln Lys Ala Ser Leu Ala Gln Ser Gly Glu Ser  
35 40 45

Pro Pro Thr Ser Asn Ile Leu Arg Asn Ser Ser Thr Gln Leu Cys Ala  
50 55 60

Val Pro Gly Arg Gly Gly Arg Ser Lys Ser Arg Ile Leu Gly Asn Ile  
65 70 75 80

Pro His Thr Gly Ala Ala Arg Arg Ala Trp Ser Arg Gly Pro Ile Arg  
85 90 95

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Leu

<210> 92  
 <211> 39  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 92

Met Lys Ile Asp Leu His Lys Ser Ile Ser Ser Glu Ser Tyr Arg Thr  
 1 5 10 15

Leu Gly Gln Arg Arg Cys Met Lys Leu Pro Glu Arg Glu Asn Arg Ser  
 20 25 30

His Val Lys Glu Gln Lys Ser  
 35

<210> 93  
 <211> 130  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 93

Met Gly Pro Trp Gly Phe Gly Ala Met Ser Gly Trp Ala Lys Asn Lys  
 1 5 10 15

Thr Lys Phe Gly Lys Ile Met Ala Arg Lys Lys Ile Phe Ser Thr Arg  
 20 25 30

Ala Leu Lys Val Ala Pro Pro Leu Gly Ala Leu Gly Gly Val Thr Arg  
 35 40 45

Gly Leu Pro Cys Met His Pro Gly Gly Gly Lys Asn Trp Gly Gly Gly  
 50 55 60

Glu Gly Asp Pro Trp Gly Gly Arg Gly Gly Phe Gln Gln Lys Thr Lys  
 65 70 75 80

Lys Gly Pro Ser Ser Lys Pro His Ile Leu Arg Gly Gly Gly Arg Pro  
 85 90 95

Pro Val Pro Gly Gly Gly Pro Ile Ala Ser Gly Arg Pro Gly Gly Val  
 100 105 110

100033 11001  
 100033 11001

Gln Gly Gly Gly Val Val Leu Thr Thr Val Phe Leu Ala Pro Lys Val  
 115 120 125

Arg Gly  
 130

<210> 94  
 <211> 23  
 <212> PRT  
 <213> Homo sapien

<400> 94

Met Ser Phe Ser Leu Gly Val Phe Ser Gly Leu Val Asp Lys Gly Leu  
 1 5 10 15

Tyr Tyr Ile Cys His Trp Tyr  
 20

<210> 95  
 <211> 30  
 <212> PRT  
 <213> Homo sapien

<400> 95

Met Gly Gly Val Arg Gly Cys Thr Pro Leu Phe Pro Trp Ala Gly Ser  
 1 5 10 15

Ala Cys Leu Ile Ile Phe Ile Phe Trp Gly Arg Thr Arg Val  
 20 25 30

<210> 96  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 96

Met Arg Ser Ser Ile Ser Asp Lys Lys Leu Gly Ser Gln Leu Lys Cys  
 1 5 10 15

Ala Val Ser Thr His Gln Ile Leu Arg Thr Tyr Arg Ser Ala Pro Val  
 20 25 30

<210> 97  
 <211> 50  
 <212> PRT  
 <213> Homo sapien

<400> 97

Met Gly Ile Ala Arg Ile Arg Leu Ser Val Val Pro Ala Glu Gly Thr  
1 5 10 15

Arg Arg Ala Pro Pro Glu Arg Glu Arg Asp Phe Gly Glu Gly Ala Glu  
20 25 30

Arg Gly Gly Pro Glu Ala Gln Arg Pro Pro Ser Pro Thr Gly Phe Gln  
35 40 45

Val Pro  
50

<210> 98  
<211> 91  
<212> PRT  
<213> Homo sapien

<400> 98

Met Asp Pro Pro Val Gly Pro Val Leu Ser Pro Gly Ile Gly Gly Ala  
1 5 10 15

Met Leu Ser Pro Gln Thr Pro Thr Met Arg Gly Gly Glu Arg Asn Leu  
20 25 30

Gly Gly Gly Tyr Ile Leu Phe Pro Phe Pro Leu Cys Phe Lys Trp Trp  
35 40 45

Ser Pro Thr Leu Asp Phe Gly Gln Gly Leu Leu Val Leu Ala Gly Gly  
50 55 60

Ala Val Gln Lys Gln Ile Ser Thr Thr Trp Gly Gly Val Asn Arg Gly  
65 70 75 80

Pro Ser Ser Asp His Val Gly Arg Leu Arg Ala  
85 90

<210> 99  
<211> 56  
<212> PRT  
<213> Homo sapien

<400> 99

Met Tyr Lys Ile Ala Ser Ile Ile Lys Lys Asn Ser Gln Glu Ile Lys  
1 5 10 15

Arg Pro Gly Pro Asp Gly Phe Thr Asp Glu Phe Tyr Gln Thr Tyr Glu  
20 25 30

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Glu His Gln Leu Leu Leu Asn Asn Ser Lys Asn Thr Asn Arg Ser Glu  
 35 40 45

Phe Phe Leu Thr Pro Ser Met Arg  
 50 55

<210> 100  
 <211> 100  
 <212> PRT  
 <213> Homo sapien

<400> 100

Ser Val Pro Arg Leu Asn Ala Lys Glu Ile Glu Asn Leu Asn Arg Thr  
 1 5 10 15

Asn Arg Met Tyr Lys Ile Ala Ser Ile Ile Lys Lys Asn Ser Gln Glu  
 20 25 30

Ile Lys Arg Pro Gly Pro Asp Gly Phe Thr Asp Glu Phe Tyr Gln Thr  
 35 40 45

Tyr Lys Glu Asp Trp Val Pro Ile Leu Leu Lys Leu Phe Gln Arg Val  
 50 55 60

Glu Glu Glu Gly Leu Leu Pro Lys Thr Phe Tyr Glu Ala Thr Ile Thr  
 65 70 75 80

Leu Ile Pro Lys Pro Gly Arg Asp Thr Thr Lys Lys Glu Asn Tyr Arg  
 85 90 95

Gln Thr Ala Leu  
 100

<210> 101  
 <211> 67  
 <212> PRT  
 <213> Homo sapien

<400> 101

Met Thr Leu Thr Cys Phe Pro Leu Ser Ser Tyr Lys Lys Arg Phe Phe  
 1 5 10 15

Leu Phe Gln Phe Cys Tyr Ser Cys Val Phe Phe Ser Ser Trp Cys Asp  
 20 25 30

1000183 442001

Ile Ile Ser His Thr Pro Glu His Phe Pro Val Thr Lys Leu Ile Gly  
 35 40 45

Leu Ser Thr Ile Phe Lys Val Met Cys Tyr Leu Val Thr His Trp Leu  
 50 55 60

Tyr Thr Ala  
 65

<210> 102  
 <211> 38  
 <212> PRT  
 <213> Homo sapien

<400> 102

Met Asn Asn Pro Ala Ser Ile Lys Tyr Ile Lys Ser Asn Asn Leu Lys  
 1 5 10 15

Leu Thr Tyr Lys Asn Asn Ser Arg Ser Gly Arg Phe His Ser Cys Ile  
 20 25 30

Leu Thr Ile Phe Lys Glu  
 35

<210> 103  
 <211> 36  
 <212> PRT  
 <213> Homo sapien

<400> 103

Met Pro Gly Leu Leu Leu His Val Phe Leu Pro Thr Ile Phe Gly Trp  
 1 5 10 15

Val Ser Arg Lys Lys Ile Phe Lys Ile Lys Lys Lys Lys Lys Lys Lys  
 20 25 30

Lys Lys Ala Cys  
 35

<210> 104  
 <211> 44  
 <212> PRT  
 <213> Homo sapien

<400> 104

Met Val Trp Glu Asn His Glu Gln Phe Gly Val Leu Leu Ile Thr Pro  
 1 5 10 15

1000483 44001

Leu Gly Ala Cys Tyr His Leu Tyr Leu Val Leu Lys Lys Val Lys Asn  
                   20                                  25                                  30

Trp Gly Gln Lys Lys Lys Lys Lys Lys Lys Ala Leu  
                   35                                  40

<210> 105  
 <211> 38  
 <212> PRT  
 <213> Homo sapien

<400> 105

Met Cys Val Leu Leu Lys Asn Leu Gly Gly Tyr Arg Ile Phe Ala Leu  
   1                                  5                                  10                                  15

Lys Ile Lys Met Leu Met Arg Lys Leu Gly Ile Glu Gln Thr Thr Gln  
                   20                                  25                                  30

Thr Ile Asp Leu Phe Asn  
                   35

<210> 106  
 <211> 21  
 <212> PRT  
 <213> Homo sapien

<400> 106

Met Ile Pro Val Cys Phe Ser Arg Gln Pro Pro Leu Pro Ala Leu Ala  
   1                                  5                                  10                                  15

Gly Val Leu Trp Trp  
                   20

<210> 107  
 <211> 133  
 <212> PRT  
 <213> Homo sapien

<400> 107

Met Ala Pro Pro Asn Phe Val Ala Leu Met Gly Gly Gly Phe Gln Val  
   1                                  5                                  10                                  15

Gly Gly Cys Ala Gly Ser Cys Ile Pro Gly Asp Arg Val Arg Glu Gln  
                   20                                  25                                  30

Asp Gly Leu Trp Val Trp Glu Gly Lys Pro Glu Val Gly Arg Ser Gly  
                   35                                  40                                  45

100493 "EST001"

Lys Gly Ser Leu His Glu Glu Lys Pro Arg Thr Gly Gly Pro Thr Ala  
50 55 60

Phe Glu Lys Pro Arg Lys Ser Ala Gly Ser Arg Gly Gly Pro Pro Thr  
65 70 75 80

Arg Leu Leu Glu Gly Gly Pro Pro His Leu Gly Ser Ile Gly Gly Pro  
85 90 95

Gly Ala Gly Lys Gly Pro Trp Arg Gly Val Met Gly Asp Thr Cys Ala  
100 105 110

Pro Gly Ala Gly Arg Pro Gln Asn Ala Arg Asn Leu Gln Ala Thr Arg  
115 120 125

Gly Gly Pro Val Thr  
130

<210> 108  
<211> 79  
<212> PRT  
<213> Homo sapien

<400> 108

Met Ser Ala Lys Leu Ile Asn Phe Val Ser Val Thr Gln Glu Ser Ser  
1 5 10 15

Ile Ser Tyr Ser Asn Leu Val Gln Ser Thr Met Ser Thr His Asn Asn  
20 25 30

Ser Lys Tyr Tyr Met Asn Lys Phe Ala Gln Val Leu Gly Ala Asn His  
35 40 45

Ile Arg Glu Asn Asn Val Asn Cys Thr Gln Ser Met Cys Ser Pro Lys  
50 55 60

Cys Ile Cys Leu Ser Asn Ala Thr Trp Lys Pro Arg Gly Tyr Ala  
65 70 75

<210> 109  
<211> 31  
<212> PRT  
<213> Homo sapien

<400> 109

10083 10083 10083

Met Asn Phe Lys Lys Asp Thr Ala Leu Ile Ser Val Thr Trp Glu Ile  
1 5 10 15

Pro Arg Val Leu Gly Ala Leu Trp Gln Glu Glu Lys Ser Asn Ile  
20 25 30

<210> 110  
<211> 57  
<212> PRT  
<213> Homo sapien

<400> 110

Met Pro Gly Gly Ser Pro Pro Thr Phe Tyr Arg Pro Asn Phe Ser Leu  
1 5 10 15

Pro Asn Met Gly Ser Val Phe Pro Ser Arg Ala Ala Lys Asp Asp Cys  
20 25 30

Thr Glu Gly Glu Gly Arg Gly Gly Pro Arg Gly Pro Val Met Ser Trp  
35 40 45

Glu Gly Arg Gly Gly Ala Pro Arg His  
50 55

<210> 111  
<211> 57  
<212> PRT  
<213> Homo sapien

<400> 111

Met Lys Arg Gly Leu Lys Phe Phe Lys Ser Arg Leu Leu Asp Asn Ala  
1 5 10 15

Arg Gly Phe Gly Asn Ile Pro Tyr Leu Lys Ile Gly Asn Leu Ala Val  
20 25 30

Gly Tyr Met Gly Glu Val Thr Pro Leu Val Gly Val Gly Trp Phe Gly  
35 40 45

Pro Val Phe Pro Pro Lys Gly Trp Phe  
50 55

<210> 112  
<211> 34  
<212> PRT  
<213> Homo sapien

<400> 112

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Gly Arg His Gln Thr Thr Asn Asn Thr Lys Lys  
145 150 155

<210> 114  
 <211> 87  
 <212> PRT  
 <213> Homo sapien

<400> 114

Met Glu Ser Arg His Ser Val Lys Gly Ser Pro Arg Tyr Ala Leu Ser  
 1 5 10 15

Ala Ala Pro Pro Gln His Glu Gly Ala Arg Gly Ser Ser Ala Gly Ala  
 20 25 30

Arg Lys Gly His Glu Glu Glu Arg Gly Thr Pro Arg Ser Phe Gly Gly  
 35 40 45

Ser Cys His Asn Pro Leu Ala Pro Arg Pro Cys Ala Arg Gly Pro Val  
 50 55 60

Pro Pro Thr Pro Ala Val Pro Pro Val Val Leu Thr Arg Phe His Ala  
 65 70 75 80

Pro Met Ala Ile Pro Leu Ala  
 85

<210> 115  
 <211> 39  
 <212> PRT  
 <213> Homo sapien

<400> 115

Met Val Ser Val Thr Ser Arg Leu His Val Tyr Ile Ser Cys Trp Gln  
 1 5 10 15

Tyr Cys Thr Lys Val Ser Pro Phe Asn Lys Gln Arg Val Lys Leu Gly  
 20 25 30

Glu Gly Gln Arg Gly Ile Tyr  
 35

<210> 116  
 <211> 83  
 <212> PRT  
 <213> Homo sapien

<400> 116

Met Gln Thr Leu Cys Gln Lys Lys Ile Pro Trp Ile Ile Ser Leu Lys  
 1 5 10 15

1000183 "11001

Asn Thr Lys Gln Gln Ser Ser Leu Lys Lys Lys Leu Val Phe Leu Asn  
20 25 30

Asn Thr Glu Tyr Phe Asp Leu Lys Asn Lys Gln Asn Thr Leu Ser Ser  
35 40 45

Lys Ile Thr Ser Gly Leu Asp Gly Phe Thr Glu Asp Phe Tyr Gln Thr  
50 55 60

Leu Lys Gly Glu Thr Leu Ile His Leu Leu Asn Ile Tyr Leu Asn Ile  
65 70 75 80

Lys Tyr Lys

<210> 117  
<211> 60  
<212> PRT  
<213> Homo sapien

<400> 117

Met Ser Ala Gln Val Leu Val Ser Arg Thr Pro Ser Gly Phe Thr Ser  
1 5 10 15

Asp Pro Phe Leu Pro Ser Arg Pro Pro His Asn Leu Leu Gly Thr Tyr  
20 25 30

Ser Ala Leu Arg Gln Ser Gln Leu Val Pro Asp Ser Ala Cys His Leu  
35 40 45

Thr Ala Pro Val Leu Ser Met Gly Lys Ile Asn Gly  
50 55 60

<210> 118  
<211> 47  
<212> PRT  
<213> Homo sapien

<400> 118

Met Leu Gly Glu Lys Leu Cys Val Phe Lys Phe Asp Lys His Val Leu  
1 5 10 15

Ile Tyr Ile Glu Ile Leu Cys Met Tyr Ser Pro Thr Leu Phe Trp Asn  
20 25 30

Asn Gly Ile Asn Ser Tyr Phe Phe Leu Leu Phe Phe Phe Gly

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35

40

45

<210> 119  
 <211> 31  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 119

Met His Lys His Thr His Thr Gln Arg Tyr Trp Leu Cys His Ser Ser  
 1 5 10 15

Leu Thr Tyr Tyr Ser Val Ser Leu Cys Ile Ser His Ile Val Leu  
 20 25 30

<210> 120  
 <211> 49  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 120

Met Trp Ser Phe Leu Ile Thr Ser His Lys Leu His Ser Phe Leu His  
 1 5 10 15

Lys Cys Pro Ala Gln Ile Leu Arg Asp Phe Phe Leu Gly Val Cys Val  
 20 25 30

Cys Val Cys Leu Cys Val Cys Val Cys Val Tyr Leu Cys Lys Phe Glu  
 35 40 45

Trp

<210> 121  
 <211> 36  
 <212> PRT  
 <213> Homo sapien

&lt;400&gt; 121

Met Asn Ile Ala Arg Ser Gln Asn Thr Lys Leu Ile His Tyr Asn Gln  
 1 5 10 15

Phe Tyr Phe Tyr Thr Leu Thr Thr Asn Asn Gly Thr Lys Lys Phe Lys  
 20 25 30

Thr Ser Ala Leu  
 35

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<210> 122  
 <211> 46  
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 <213> Homo sapien

<400> 122

Met Pro Val Ser Ile Asn Ile Lys Glu Thr Glu Ser Ile Ile Asn Lys  
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Leu Ser Lys Lys Lys Ala Leu Ser Pro Ser Gly Glu Leu Tyr Gln Thr  
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Leu Lys Asp Lys Met Ile Pro Met Ser Leu Gln Ser Leu Pro  
 35 40 45

<210> 123  
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<400> 123

Met Glu Leu Tyr Glu Trp Pro Leu Thr Ser Phe Phe Thr Arg Ala Leu  
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Arg Tyr Lys Ala Ser Ser Ser Met Cys Leu Ala Pro Pro Glu Leu Asn  
 20 25 30

Ser Tyr Pro Pro Glu Gly Cys Leu Glu Arg  
 35 40

<210> 124  
 <211> 20  
 <212> PRT  
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<400> 124

Met Ala Pro Gly Gly Pro Arg Ile Gly Asp His Trp Arg Pro Pro Gly  
 1 5 10 15

Pro Gly Leu Gly  
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<210> 125  
 <211> 32  
 <212> PRT  
 <213> Homo sapien

<400> 125

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Met Ser Asn Leu Tyr Trp Gly Lys Arg Gly Glu Lys Lys Thr Thr Lys  
1 5 10 15

Thr Thr Pro Phe Gly Gly Lys Lys Lys Lys Lys Lys Lys Asn Leu  
20 25 30

<210> 126  
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<400> 126

Met Arg Arg Leu Gly Gln Tyr Asn Thr Ser Gln Asp Val Leu Ser Asn  
1 5 10 15

Gln Tyr Phe Leu Leu Thr Phe Ser Ile Ala Ile Lys Asn Ile Ile Val  
20 25 30

Leu Pro Gly Glu Ala Leu Ser Ser Trp Pro Leu Asp Gly Asp Phe Glu  
35 40 45

Glu Val Asp Pro Met  
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<400> 127

Met Ala Phe Tyr Cys Leu Cys Leu Pro Phe Phe Asn Tyr Met Trp Thr  
1 5 10 15

Ser Phe Leu Cys Val Leu Leu Ala Val Ser Ile Ser Phe Ser Ala Asn  
20 25 30

Cys Leu Phe Leu Ser Phe Phe Ile Phe Leu Leu Gly Cys His Leu Phe  
35 40 45

Trp Leu Lys Arg Lys Leu Gly Lys  
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Gln Ala

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Thr Leu Tyr Phe Asn Phe Phe Ser Pro Ile Phe Phe Cys Phe Glu Leu  
20 25 30

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<210> 131
<211> 31
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Glu Ala His Leu Phe Ala Ile Leu Leu Thr Leu Gln Leu Ser Arg  
20 25 30

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<210> 132
<211> 64
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<213> Homo sapien
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<400> 132

Met Ala Val Ile Lys Phe Pro Tyr Arg Asp Ser Asn Ser Leu Leu Ser  
1 5 10 15

Lys His Arg Ala Asp Arg Glu Thr Ser Ser Asp Cys His Leu Val Ala  
20 25 30

Leu Met Met Glu Lys Leu Gly Met Asn His Ser Pro Phe Pro Thr Tyr  
35 40 45

Thr Pro Leu Thr Glu Trp Glu Tyr Leu Leu Asn Ser Glu Lys Gly Ile  
50 55 60

<210> 133  
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<212> PRT  
<213> Homo sapien

<400> 133

Met Leu Lys Ser His Phe Cys Leu Arg Ala Ile Lys His Met Lys Gly  
1 5 10 15

Cys Leu Thr Ser Leu Lys Lys Lys Lys Asn Lys Lys Lys Lys Gly Trp  
20 25 30

Cys Pro Ile Phe Phe Pro Arg Gly Met Ala Lys Lys Lys Lys Lys Gly  
35 40 45

Val Ser Pro Ala Gly Gly Pro Asp Lys Thr Lys Ser Gln Thr Arg Gly  
50 55 60

Gly Arg Asn Lys Glu Thr Thr Ser Pro Gly Thr Gln Arg Gly Arg Lys  
65 70 75 80

Gln Gly Lys Lys Ala Ser Pro Trp Val Lys Trp Ser Arg Pro Lys Ser  
85 90 95

His Asn

<210> 134  
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<212> PRT  
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<400> 134

Met Phe Val Ser Lys Lys Gly Val Lys Leu Ser Gln Lys Lys Lys

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Lys Lys Lys Leu Val Pro Arg Pro  
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<210> 135
<211> 46
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<400> 135

Met Leu Leu Leu Asn Gly Arg Ser Ser Leu Tyr Ile Tyr Met Ile Asp  
1 5 10 15

Gly Gly Tyr Val Ile Tyr Arg Tyr Phe Val Val Ala Leu Leu Ile Phe  
20 25 30

Leu Ile Ile Ser Phe Asp Ala Lys Ser Val Phe Leu Ile Leu  
35 40 45

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<210> 136
<211> 65
<212> PRT
<213> Homo sapien
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<400> 136

Met Ser Val Val Thr Leu Gly Thr Thr Leu Val Cys Ala Leu Phe Ala  
1 5 10 15

Thr Glu Ser Pro Ser Arg Tyr Asn Ser Lys Ile Arg Tyr Phe Leu Val  
20 25 30

Gly Gln Glu Asp Ser Gln Asp Thr Val Arg Gly Thr Ala Val Ile Gln  
35 40 45

Thr Lys Glu Leu Leu Tyr Asn Lys Phe Leu Arg Lys Tyr Val Leu Lys  
50 55 60

Cys  
65

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<210> 137
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<400> 137

59

Met Ser Leu Gln Asn Phe Ser Ser His Leu Ile Lys Leu Leu Leu Leu  
1 5 10 15

Pro Arg Phe Asn Pro Pro Phe His Val Phe Tyr Cys Leu Leu Ser Glu  
20 25 30

Ile His Ile Phe Leu Asn Phe Leu Lys Asn Ala Ser His Phe Met Tyr  
35 40 45

Ile Phe Lys Ile Phe Gly Ile His Leu  
50 55

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